

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application;

--1. (Previously Presented) A wireless transmitting/receiving device comprising:

a first device having transmitting means for modulating and transmitting an analog input signal; and

a second device having receiving means for receiving said signal transmitted by said first device, for demodulating said signal to obtain an analog signal, and for outputting said analog signal,

wherein said first device includes:

signal processing means for applying signal processing to a digital signal obtained by digitizing said analog input signal and producing an output digital audio signal,

digital to analog converting means for converting said output digital audio signal from said signal processing means into an analog signal,

emphasis means including one means for increasing a gain of a high frequency portion of said analog signal converted by said digital to analog converting means and means for increasing a gain of a high frequency portion of said digital signal in said signal processing means, and

said signal processing means includes:

delay means for delaying said digital signal; and

signal compressing/expanding means for compressing or expanding a level of a delay output signal of said delay means

according to a level of an input signal of said signal processing means.

--2. (Previously Presented) The transmitting/receiving device according to claim 1, wherein said signal compressing/expanding means includes:

frequency characteristic control means for applying a frequency characteristic to said digital signal supplied to said signal processing means;

absolute value detecting means for detecting an absolute value of a signal level of an output signal from said frequency characteristic control means; and

level control means for changing said signal level of said output signal of said delay means according to said absolute value detected by said absolute value detecting means.

--3. (Previously Presented) A wireless transmitting/receiving device comprising:

a transmitting device having transmitting means for modulating and transmitting an input analog audio signal; and a receiving device having receiving means for receiving a signal transmitted by said transmitting device, for demodulating said signal to obtain an analog audio signal, and for outputting said analog audio signal,

wherein said transmitting device includes:

signal processing means for applying signal processing to a digital audio signal obtained by digitizing said input

analog audio signal and producing an output digital signal,

digital to analog converting means for converting said output digital audio signal from said signal processing means into an analog audio signal,

emphasis means including one of means for increasing a gain of a high frequency portion of said analog audio signal converted by said digital to analog converting means and means for increasing a gain of a high frequency portion of said digital signal in said signal processing means, and

said signal processing means includes:

delay means for delaying said digital audio signal; and

signal compressing/expanding means for compressing or expanding a level of a delay output signal of said delay means according to a level of said digital audio signal input to said signal processing means.

--4. (Previously Presented) The transmitting/receiving device according to claim 3, wherein said signal compressing/expanding means includes:

frequency characteristic control means for applying a frequency characteristic to said digital audio signal supplied to said signal processing means;

absolute value detecting means for detecting an absolute value of a signal level of a digital audio output signal from said frequency characteristic control means; and

level control means for changing said level of said delay output signal from said delay means according to said absolute

value detected by said absolute value detecting means.

--5. (Previously Presented) A wireless transmitting/receiving device comprising:

a first device having transmitting means for modulating and

transmitting an analog input signal; and a second device having receiving means for receiving a signal transmitted from said first device, for demodulating said signal to obtain an analog signal, and for outputting said analog signal,

wherein said first device includes:

signal processing means for applying signal processing to a digital signal obtained by digitizing said analog input signal; and

digital to analog converting means for converting an output digital signal from said signal processing means into an analog signal, and

said signal processing means includes:

frequency band dividing means for dividing said digital signal into a plurality of frequency bands; and

signal compressing/expanding means for each band of said plurality of frequency bands for compressing or expanding an output level separately for each said band according to respective levels of said plurality of frequency bands divided by said frequency band dividing means.

--6. (Previously Presented) The transmitting/receiving device according to claim 5, wherein said frequency band

dividing means includes:

low pass filter means; and

high pass filter means.

--7. (Previously Presented) The transmitting/receiving device according to claim 5, wherein said frequency band dividing means includes:

fast Fourier transform means for fast Fourier transforming said digital signal; and

reverse fast Fourier transform means for reverse fast Fourier transforming a signal obtained by compressing or expanding a frequency domain output signal transformed by said fast Fourier transform means.

--8. (Cancelled)

--9. (Previously Presented) A wireless transmitting/receiving device comprising:

a transmitting device having transmitting means for modulating and transmitting an analog audio input signal; and

a receiving device having receiving means for receiving a signal transmitted from said transmitting device, for demodulating said signal to obtain an analog audio signal, and for outputting said analog audio signal,

wherein said device includes:

signal processing means for applying signal processing to a digital audio signal obtained by digitizing said analog

audio signal; and

digital to analog converting means for converting an output audio digital signal from said signal processing means into an analog audio signal, and

said signal processing means includes:

frequency band dividing means for dividing said digital audio signal into a plurality of frequency bands; and

signal compressing/expanding means for each band of said plurality of frequency bands for compressing or expanding an audio output level separately for each band according to a level of said digital audio signal fed to said frequency band dividing means.

--10. (Previously Presented) The transmitting/receiving device according to claim 9, wherein said frequency band dividing means includes:

low pass filter means; and

high pass filter means.

--11. (Previously Presented) The transmitting/receiving device according to claim 9, wherein said frequency band dividing means includes:

fast Fourier transform means for fast Fourier transforming said digital audio signal; and

reverse fast Fourier transform means for reverse fast Fourier transforming a signal obtained by compressing or expanding a frequency domain output signal transformed by said fast Fourier transform means.

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--12. (Cancelled)